



A.D. 1861, 12th JUNE. N° 1500.

S P E C I F I C A T I O N

OF

JOHN ALBERT DAUNCEY.

APPARATUS FOR FEEDING INFANTS, &c.

L O N D O N :

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A.D. 1861, 12th JUNE. N° 1500.

Apparatus for Feeding Infants, &c.

LETTERS PATENT to John Albert Dauncey, of Bury, in the County of Lancaster, Yarn Agents' Salesman, for the Invention of "IMPROVEMENTS IN APPARATUS FOR SUPPLYING LIQUID NOURISHMENT TO INFANTS AND INVALIDS, AND IN THE APPLICATION OF SUCH IMPROVEMENTS TO THE FEEDING OF ANIMALS."

Sealed the 10th December 1861, and dated the 12th June 1861.

PROVISIONAL SPECIFICATION left by the said John Albert Dauncey at the Office of the Commissioners of Patents, with his Petition, on the 12th June 1861.

I, JOHN ALBERT DAUNCEY, of Bury, in the County of Lancaster, Yarn
5 Agents' Salesman, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN APPARATUS FOR SUPPLYING LIQUID NOURISHMENT TO INFANTS AND INVALIDS, AND IN THE APPLICATION OF SUCH IMPROVEMENTS TO THE FEEDING OF ANIMALS," to be as follows:—

The Invention relates, first, to a certain description of apparatus used for
10 supplying liquid nourishment to invalids and infants, and which is now well known, wherein an elastic tube is employed externally, and a rigid internal tube to convey the liquid from the vessel to the consumer.

My improvement consists in the employment of a jointed tube, for the external tube in contradistinction to the continuous elastic one now used, so
15 that it may be disunited for the purpose of cleaning, and also in the use of an elastic tube having its lower extremity weighted instead of a rigid one internally,

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so that the open end of the said tube may always be submerged in the liquid in whatever position the vessel may be placed, the two tubes being secured to the stopper of the vessel as usual, in which small tubes or orifices are arranged for the admission of air. If required, a number of tubes may be fitted to one vessel so as to supply many consumers from one vessel. 5

Secondly, my Invention relates to the feeding of animals, such as lambs and calves, and consists in arranging a flexible vessel above the receptacle of the feeding liquid, such flexible vessel being composed of caoutchouc or other suitable material, and either suspended by springs in a framing or secured by means of a flexible washer on to the lower vessel to give elasticity instead of 10 having it rigid as hitherto used. The teats for sucking are placed in the sides of the upper or flexible vessel, and communicate with the liquid by tubes jointed for the purpose of cleaning.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said John Albert Dauncey in the Great Seal Patent Office on 15 the 12th December 1861.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN ALBERT DAUNCEY, of Bury, in the County of Lancaster, Yarn Agents' Salesman, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters 20 Patent, bearing date the Twelfth day of June, in the year of our Lord One thousand eight hundred and sixty-one, in the twenty-fourth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said John Albert Dauncey, Her special license that I, the said John Albert Dauncey, my executors, administrators, and assigns, or such others 25 as I, the said John Albert Dauncey, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Inven- 30 tion for "**IMPROVEMENTS IN APPARATUS FOR SUPPLYING LIQUID NOURISHMENT TO INFANTS AND INVALIDS, AND IN THE APPLICATION OF SUCH IMPROVEMENTS TO THE FEEDING OF ANIMALS,**" upon the condition, amongst others, that I, the said John Albert Dauncey, by an instrument in writing under my hand and seal, should particularly describe and ascertain the nature of the said Invention, and 35 in what manner the same was to be performed, and cause the same to be

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filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said John Albert Dauncey, do hereby declare the nature of the said Invention, and in what manner the same is
5 to be performed, to be particularly described and ascertained in and by the following statement and accompanying Drawings (that is to say):—

The Invention relates, first, to a certain description of apparatus used for supplying liquid nourishment to invalids and infants, and which is now well known, wherein an elastic tube is employed externally and a rigid internal tube
10 to convey the liquid from the vessel to the consumer.

My improvement consists in the employment of a jointed tube for the external tube, in contradistinction to the continuous elastic one now used, so that it may be disunited for the purpose of cleaning, and also in the use of an elastic tube having its lower extremity weighted instead of a rigid one internally,
15 so that the open end of the said tube may always be submerged in the liquid in whatever position the vessel may be placed, the two tubes being secured to the stopper of the vessel as usual, in which small tubes or orifices are arranged for the admission of air. If required a number of tubes may be fitted to one vessel so as to supply many consumers from one vessel.

20 Secondly, my Invention relates to the feeding of other animals, such as lambs and calves, and consists in arranging a flexible vessel above the receptacle of the feeding liquid, such flexible vessel being composed of caoutchouc or other suitable material, and either suspended by springs in a framing or secured by means of a flexible washer on to the lower vessel to give elasticity instead
25 of having it rigid as hitherto used. The teats for sucking are placed in the sides of the upper or flexible vessel, and communicate with the liquid by tubes jointed for the purpose of cleaning.

In order that the Invention may be better understood and explained in detail, I have hereunto attached a Sheet of Drawings made upon a scale of
30 about four inches to a foot, Figs. 1, 2, and 3 being shewn full size.

In Fig. 1, *a, a*, is the bottle or receptacle to contain the liquid, within which the elastic tube *b* descends from the exterior tube *c*, the internal tube being provided with a weight or ferrule of metal, glass, or porcelain *d*, for the purpose of insuring the end being submerged in the liquid in whatsoever
35 position the bottle may be placed. The external tube is formed in sections each connected by means of the double conical junction tube or union joint *e*, as seen in the detailed view, a similar junction being used between the glass internal tube *f*, Figs. 2 and 3, and the external tube when a glass tube is used instead of the flexible one.

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Fig. 4 is a side view of an apparatus adapted to the feeding of animals, such as lambs and calves, in which an elastic chamber *g* is suspended elastically in a framework *h*, the teats *i, i*, being inserted in the elastic hemispheres secured to or formed on the sides thereof, and communicating with the liquid contained in the vessel *k* by means of the tubes *l, l, l*, which may be made in short 5 lengths jointed together as above described; Fig. 5 is a plan view of the same; and Fig. 6 is a side view of a modification wherein the elastic chamber is secured upon the vessel without the use of an extra framing.

Fig. 7 is an end view of an apparatus particularly adapted to the feeding of pigs, wherein the same principles are embodied in another and more suitable 10 form.

Having now described the nature of the said Invention, together with the manner of carrying the same into practical effect, I would remark in conclusion that I claim,—

First, the use of a jointed external tube instead of a continuous length, as 15 the sections are more readily cleaned.

Secondly, the method of effecting the junction of such sections or pieces by means of the conical or double conical union joints.

And, thirdly, the use of an elastic internal tube, having a weight at its 20 lowest extremity.

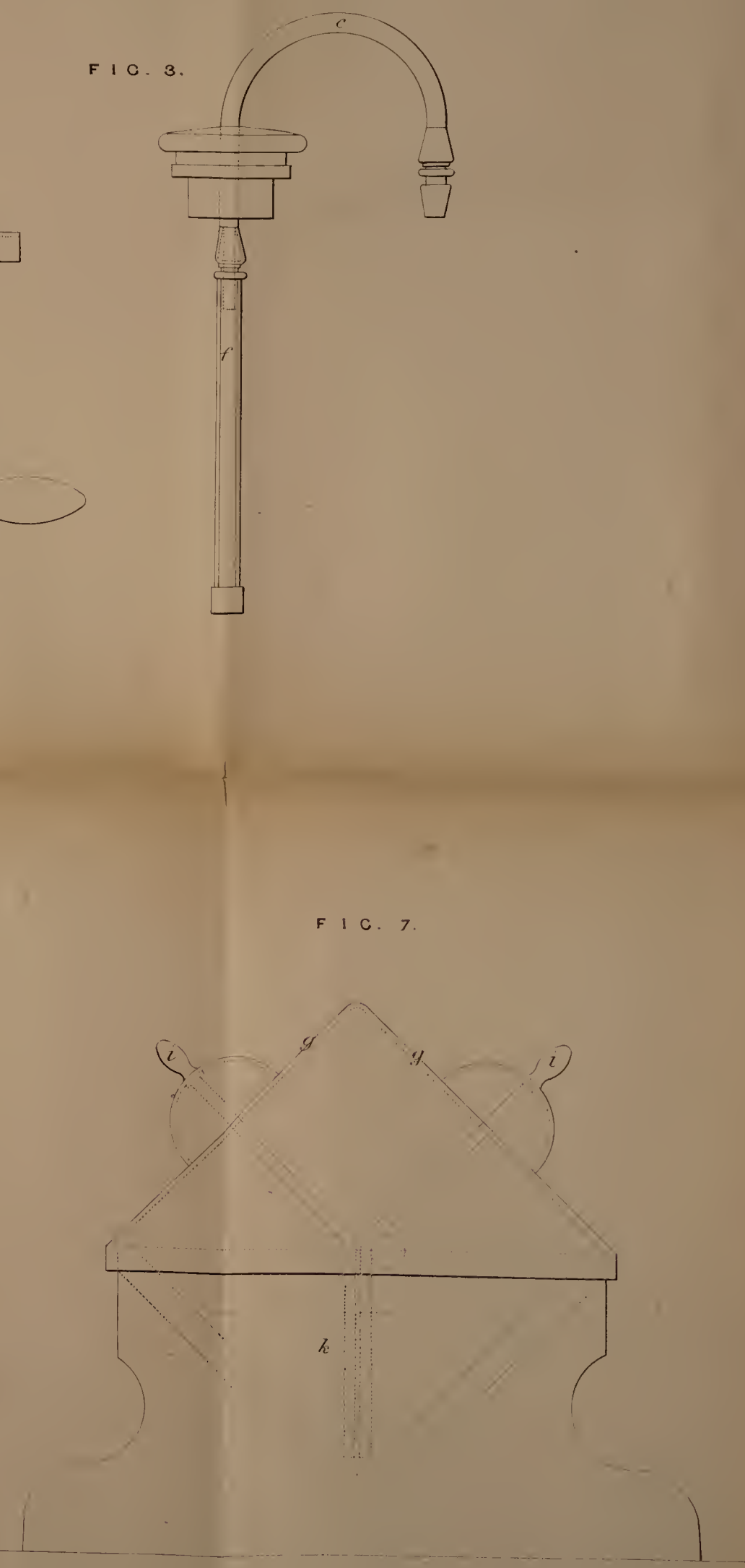
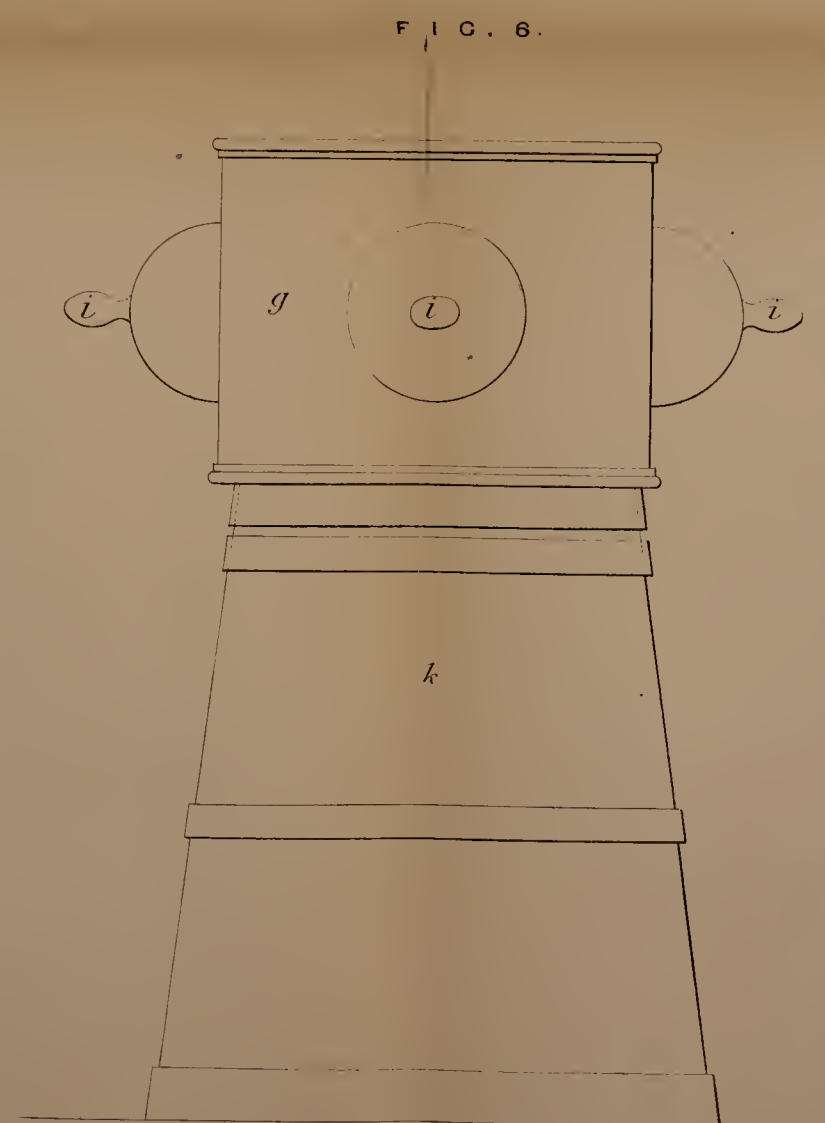
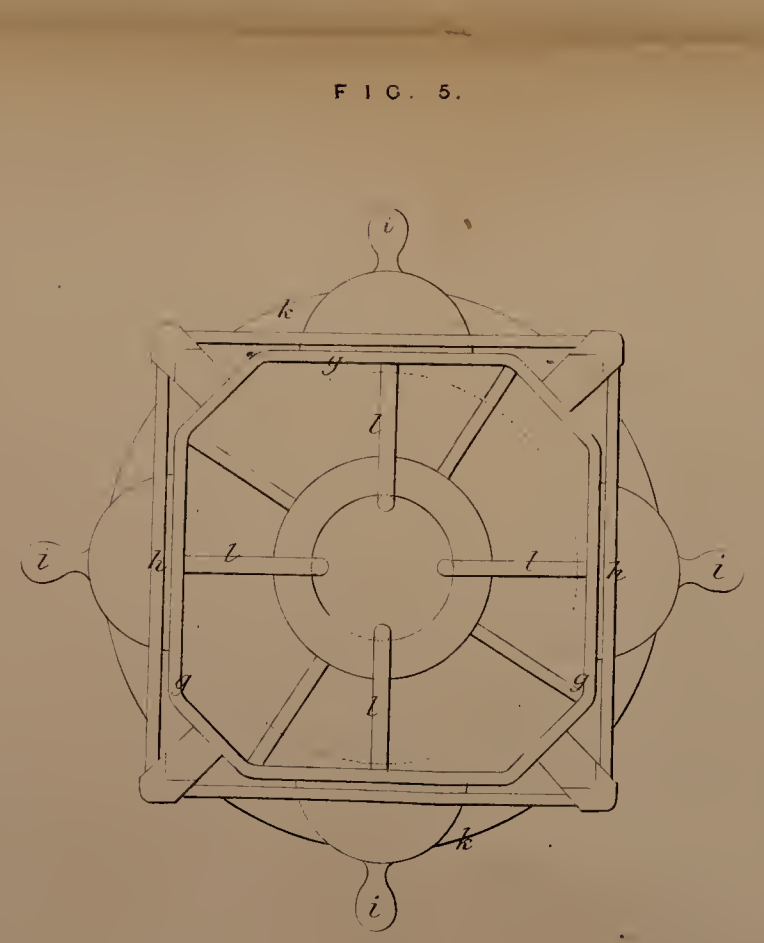
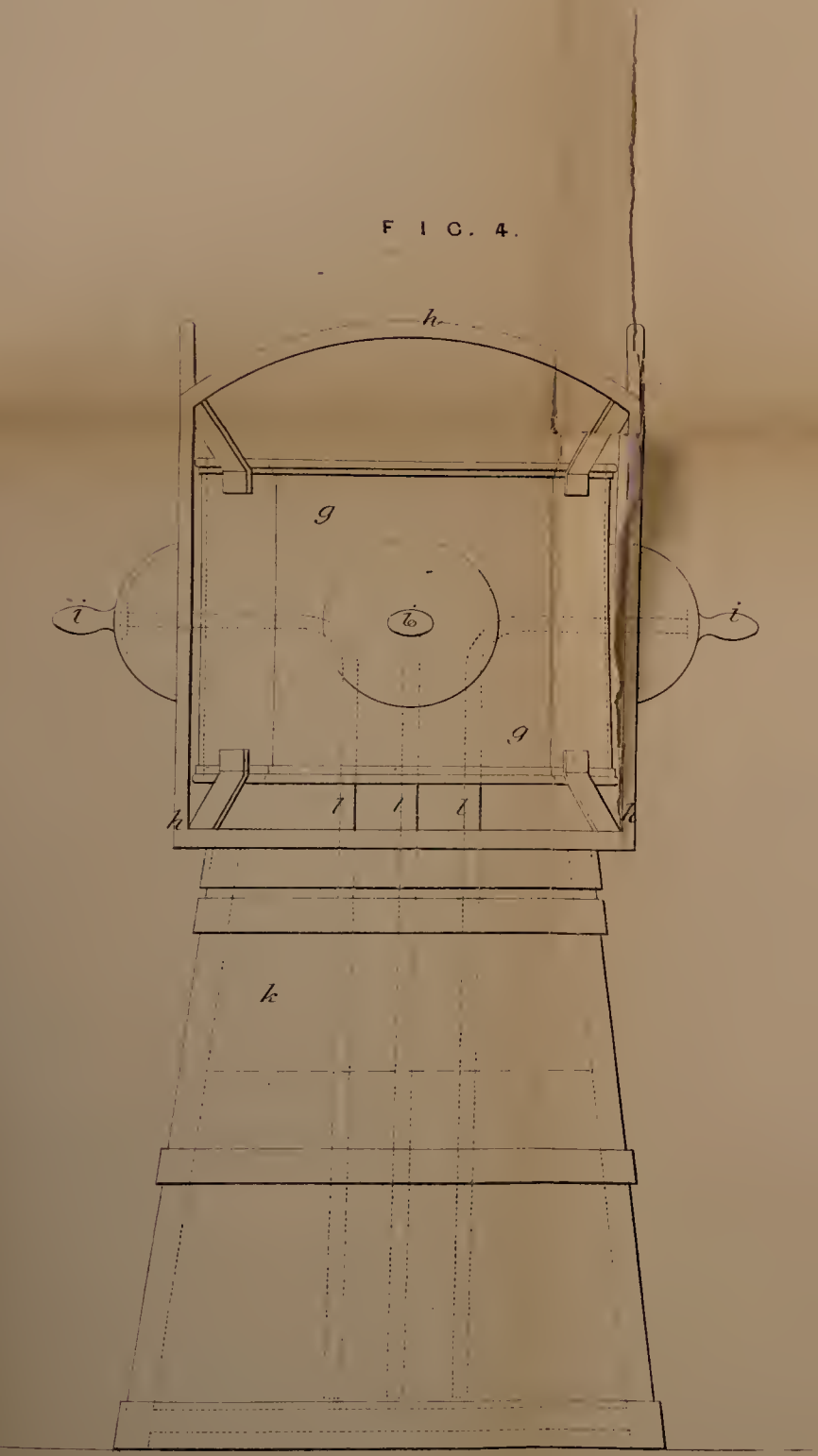
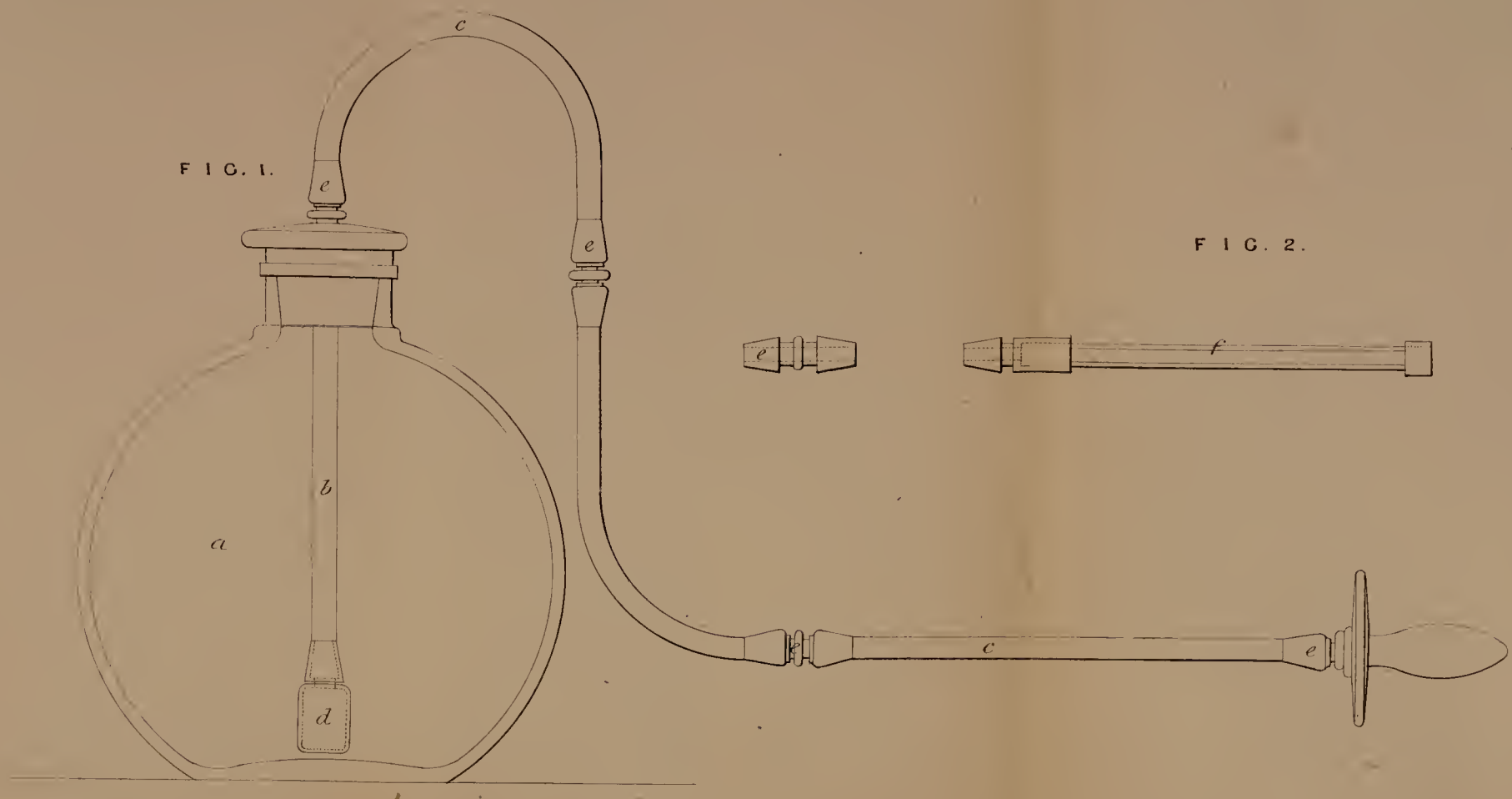
And last, I claim the novel construction and general arrangement of apparatus for feeding lambs, calves, and the young of cattle, as herein-before described, set forth, and fully illustrated in the Drawings attached.

In witness whereof, I, the said John Albert Dauncey, have hereunto set my hand and seal, this Eleventh day of December, in the year of 25 our Lord One thousand eight hundred and sixty-one.

JOHN ALBERT DAUNCEY. (L.S.)

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1861.



The filed drawing is not colored.

